

REPAIR AND RE-INSULATE STEAM PIPING

Sturgis, South Dakota

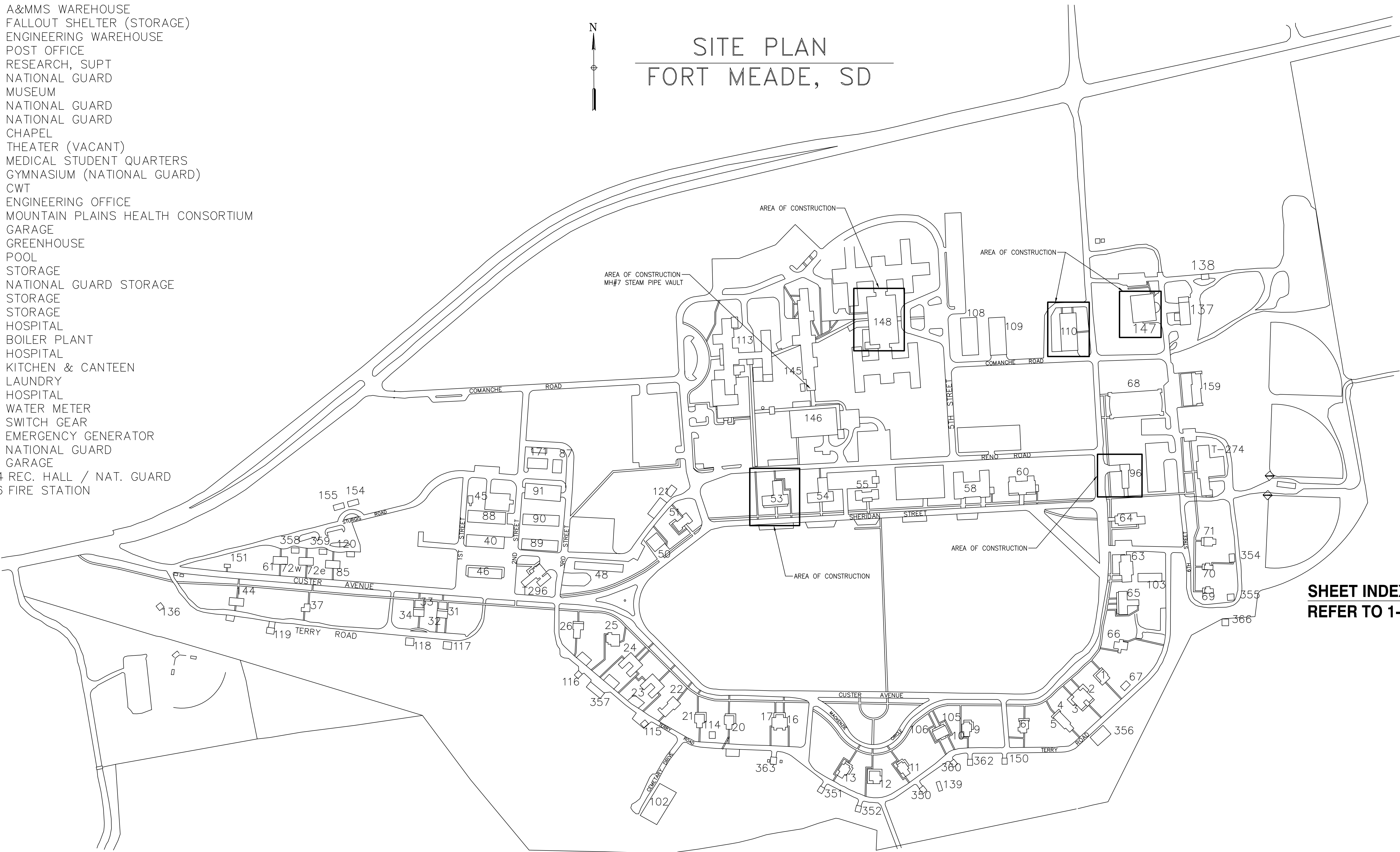
CONSTRUCTION DOCUMENTS

SEPTEMBER 21, 2012

TSP Project # 04121063

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FORT MEADE, SD

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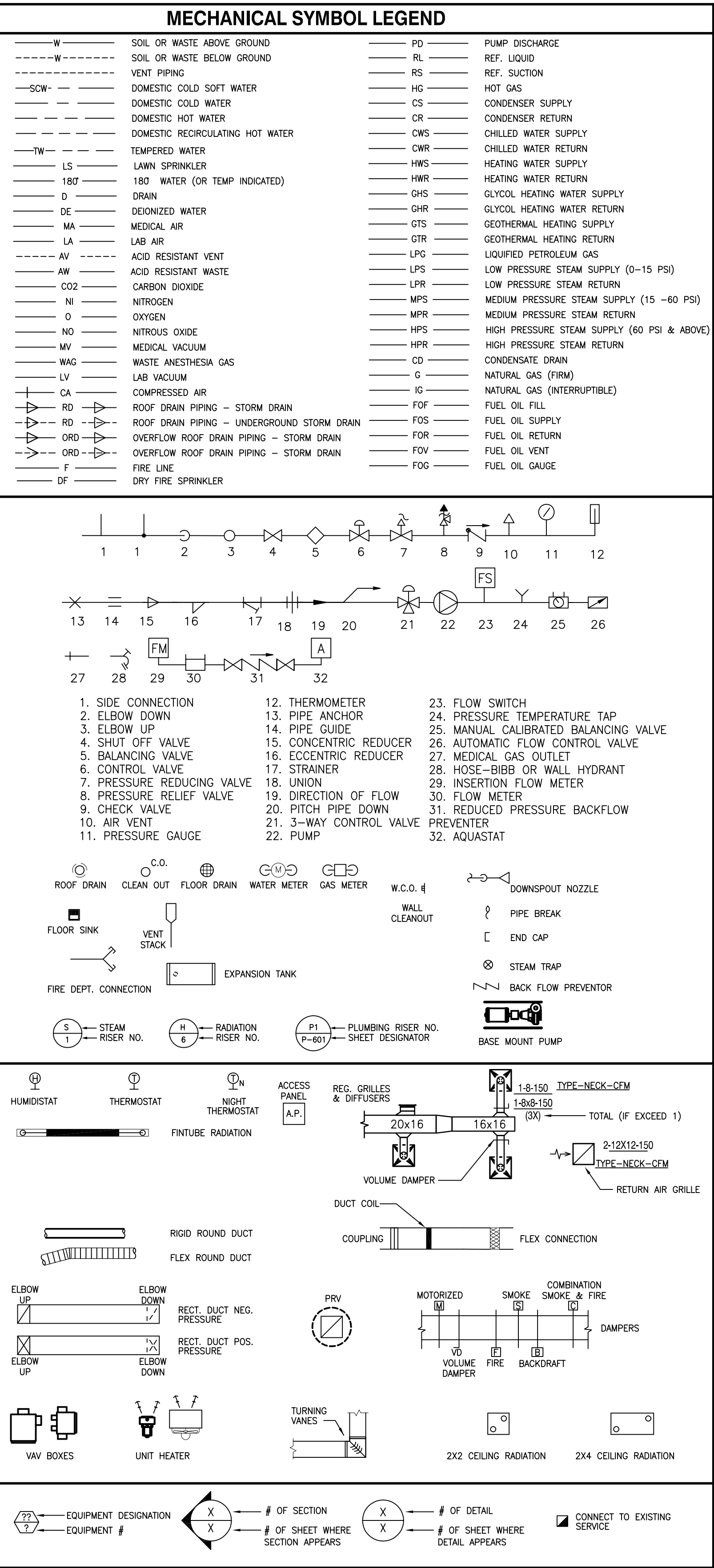


SHEET INDEX
REFER TO 1-M001

CONSULTANTS:			ARCHITECT/ENGINEERS:		Drawing Title OVERALL SITE PLAN		Project Title DEPT. OF V.A. (V23) BHHCS REPAIR & REINSULATE STEAM PIPING		Project Number 568-11-115		Office of Construction and Facilities Management 		
			 TSP, Inc. 1112 N. West Ave. Sioux Falls, SD 57104 phone: (605) 336-1160 fax: (605) 336-7926 www.teamtsp.com TSP PROJECT #04121063		Approved Project Director		Location FORT MEADE, SD		Building Number				
Revisions:						Date 09-21-2012		Checked SMT		Drawn JHL		Drawing Number S-001 Dwg. 1 of 6	

three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
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forty one inches = one foot
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eighty five inches = one foot
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eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot

MECHANICAL ABBREVIATION LEGEND		
A	ANCHOR BOLT	
AB	ABOVE	
AC	AIR CONDITIONER	
ACP	ACOUSTICAL CEILING PANEL	
ACT	ACOUSTICAL CEILING TILE	
AD	AREA DRAIN	
ADA	AMERICAN WITH DISABILITIES ACT	
ADJ	ADJUSTABLE	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AIR HANDLING UNIT	
AL	ALUMINUM	
ALT	ALTERNATE	
ANOD	ANODIZED	
AP	ACCESS PANEL	
APPROX	APPROXIMATE	
ARCH	ARCHITECT/ARCHITECTURAL	
ARR	ARRANGEMENT	
AUTO	AUTOMATIC	
AVG	AVERAGE	
B		
BAL DMPR	BALANCE DAMPER	
BB	BASE BOARD	
BD	BACKDRAFT DAMPER	
BLDG	BUILDING	
BLK	BLOCK	
BLKG	BLOCKING	
BM	BEAM/BENCH MARK	
BOB	BOTTOM OF BEAM	
BOJ	BOTTOM OF JOIST	
BOT	BOTTOM	
BRG	BEARING	
BRK	BRICK	
BSMT	BASEMENT	
BTC	BRITISH THERMAL UNIT	
BWVN	BETWEEN	
C		
CA	CELSIUS/CENTIGRADE	
CAB	COMBUSTION AIR	
CAP	CAPACITY	
CATCH	CATCH BASIN	
CB	CAST IRON	
CIP	CAST IN PLACE	
CLC	CENTER LINE	
CLG	CEILING	
CLKG	CAULKING	
CLR	CLEAR	
CMU	CONCRETE MASONRY UNIT	
CO	CLEAN OUT	
COL	COLUMN	
COMB	COMBINATION	
COMP	COMPOSITE/COMPRESSOR	
COND	CONDENSATE	
CONC	CONCRETE	
CONN	CONNECT/CONNECTION	
CONST	CONSTRUCT/CONSTRUCTION	
CONT	CONTINUOUS	
CONTR	CONTRACTOR	
COORD	COORDINATE	
CPT	CARPET	
CRU	CONDENSATE RETURN UNIT	
CT	CERAMIC TILE	
CTR	CENTER	
CW	COLD WATER	
D		
db	DECIBEL	
D	DEPTH	
DEMO	DEMOLITION	
DET	DETAIL	
DF	DRINKING FOUNTAIN	
DIA	DIAMETER	
DIFF	DIFFUSER	
DM	DIMENSION	
DISCH	DISCHARGE	
DISP	DISPOSAL	
DMPR	DAMPER	
DN	DOWN	
DN SPOUT	DOWN SPOUT	
DW	DISHWASHER	
DWG	DRAWING	
DX	DIRECT EXPANSION	
E		
E	EAST	
EA	EACH/EXHAUST AIR	
EL	ELECTRICAL (SUB)CONTRACTOR	
ELEV	ELEVATION	
ELEC	ELECTRIC(AL)	
EMERG	EMERGENCY	
EP	ELECTRICAL PANEL	
EQ	EQUAL	
EQUIP	EQUIPMENT	
ETR	EXISTING TO REMAIN	
EW	ELECTRIC WATER COOLER	
EXC	EXCAVATE/EXCAVATION	
EXH	EXHAUST	
EXIST	EXISTING	
EXP	EXPANSION	
EXT	EXTERIOR	
F		
F	FAHRENHEIT	
FA	FRESH AIR	
FAB	FABRICATE	
FCU	FAN COIL UNIT	
FD	FLOOR DRAIN/FIRE DAMPER	
FDC	FIRE DEPARTMENT CONNECTION	
FDN	FOUNDATION	
FE	FIRE EXTINGUISHER	
FF	FINISH FLOOR	
FH	FIRE HYDRANT	
FHC	FIRE HOSE CABINET	
FIC	FURNISHED & INSTALLED	
FIN	BY CONTRACTOR	
FIN	FINISH	
F (CONTINUED)		
FIO	FURNISHED & INSTALLED	
FLASH	FLASHING	
FLEX	FLEXIBLE	
FLR	FLOOR	
FOP	FUEL OIL FILL	
FOR	FUEL OIL RETURN	
FOS	FUEL OIL SUPPLY	
FOV	FUEL OIL VENT	
FPR	FIREPROOF(ING)	
FT	FOOTING	
FPM	FEET PER MINUTE	
FPS	FEET PER SECOND	
FS	FLOOR SINK	
FSEC	FLOOD SERVICE	
FT	FOOT	
FTG	FOOTING	
FURN	FURNISH	
FURR	FURRING	
FUT	FUTURE	
F&T	FLOAT & THERMOSTATIC	
G		
G	GAS	
GA	GAUGE	
GAL	GALLON	
GALV	GALVANIZED	
GB	GRAB BAR	
GC	GENERAL CONTRACTOR	
GARB DISP	GARBAGE DISPOSAL	
GND	GROUND	
GPM	GALLONS PER MINUTE	
GPH	GALLONS PER HOUR	
GR	GRILLE	
GWB	GYPSUM WALL BOARD	
H		
HB	HOSE BIB	
HC	HANDICAP	
HORIZ	HORIZONTAL	
HP	HORSEPOWER/HEAT PUMP	
HPS	HIGH PRESSURE STEAM	
HR	HEATING WATER RETURN/HOUR	
HS	HEATING WATER SUPPLY	
HT	HEIGHT	
HIG	HEATING	
HTR	HEATER	
HVAC	HEATING/VENTILATION/	
HW	AIR CONDITIONING	
HWR	HOT WATER	
HWS	HEATING WATER RETURN	
I		
ID	INSIDE DIAMETER/INSIDE DIMENSION	
IN	INCHES	
IND	INDICATE	
INFO	INFORMATION	
INS	INSPECTION	
INST	INSTALLATION	
INSUL	INSULATION	
INT	INTERIOR	
INV	INVERT	
IPS	IRON PIPE SIZE	
J		
J	JOIST	
JO	JOINT	
JAN	JANITOR	
K		
K	KNOCK OUT	
KO	KNOCK OUT	
KW	KILOWATT	
L		
L	LEFT/LENGTH	
LAB	LABORATORY	
LAV	LAVATORY	
LB	POUND	
LH	LEFT HAND	
LH	LIQUID PETROLEUM GAS	
LWCO	LOW WATER CUT OFF	
M		
M	MIXED AIR	
MA	MASONRY	
MAT	MATERIAL	
MAX	MAXIMUM	
MEH	THOUSANDS OF BTU'S PER HR	
MECH	MECHANICAL (SUB)CONTRACTOR	
MEMB	MEMBRANE	
MET	METAL	
MEZZ	MEZZANINE	
MFR	MANUFACTURER	
MH	MANHOLE	
MIN	MINIMUM	
MISC	MISCELLANEOUS	
MNT	MOUNT	
MO	MASONRY OPENING	
MOD	MODULE/MODIFY	
MTD	MOUNTED	
MTL	METAL	
N		
N/A	NOT APPLICABLE	
N	NORTH	
NAT	NATURAL	
NE	NORTHEAST	
NIC	NOT IN CONTRACT	
NO	NUMBER	
NOM	NOMINAL	
NTS	NOT TO SCALE	
NW	NORTHWEST	
O		
O	OVERFLOW DOWN SPOUT	
ODS	OVERFLOW DRAIN	
OFD	OPENING	
OPG	OVERFLOW ROOF DRAIN	
ORD	OUNCE	
OZ	OUNCE	
P		
PC	PRECAST	
PERF	PERFORATED	
PERP	PERPENDICULAR	
PLB	PLUMBING	
PH	PHASE	
PLAS	PLASTER	
PLBG	PLUMBING	
PLYWD	PLYWOOD	
PNL	PANEL	
POUSH	POLISH	
PR	PAIR/PLUMBING RISER	
PREFAB	PREFABRICATE	
PRV	POWER ROOF VENTILATOR	
PSF	POUNDS PER SQUARE FOOT	
PSI	POUNDS PER SQUARE INCH GAUGE	
PT	POINT	
PVC	POLYVINYL CHLORIDE	
Q		
QT	QUARRY TILE	
QTR	QUARTER	
R		
R	RISER	
RA	RETURN AIR	
RAD	RADIUS/RADIANT	
RCP	REFLECTED CEILING PLAN	
ROUND/ROOF DRAIN	ROUND/ROOF DRAIN	
REBAR	REINFORCING BAR	
REF	REFERENCE/REFRIGERANT	
REG	REGISTER	
REINF	REINFORCE	
REL	RELIEF	
REQ	REQUIRED	
RET	RETURN	
REVISION	REVISION	
RH	RIGHT HAND	
RHW	RECURCULATING HOT WATER	
RI	ROUGH IN	
RM	ROOM	
RO	ROUGH OPENING	
RPM	REVOLUTIONS PER MINUTE	
S		
S	SOUTH	
S	SUPPLY AIR	
SAN	SANITARY	
SCHED	SCHEDULE	
SE	SOUTHEAST	
SECT	SECTION	
SF	SQUARE FEET	
SHEET	SHEET	
SHWR	SHOWER	
SI	SQUARE INCH	
SIM	SIMILAR	
SOFT	SOFTENER	
SPEC	SPECIFICATION	
SQ	SQUARE	
SS	STAINLESS STEEL	
STD	STANDARD	
STL	STEEL	
STRUCT	STRUCTURE/STRUCTURAL	
SURF	SURFACE	
SUSP	SUSPENDED	
SW	SOUTHWEST	
SYM	SYMBOL	
T		
T	TOP	
TC	TEMPERATURE CONTROL	
CONTRACTOR	CONTRACTOR	
TEMP	TEMPERATURE/	
THD	THREADED	
THK	THICK	
TILT	TILE	
TOT	TOP OF CURB	
TOF	TOP OF FOOTING	
TOJ	TOP OF JOIST	
TYP	TYPICAL	
U		
U	UNIT HEATER	
UNEXC	UNEXCAVATED	
UNFIN	UNFINISHED	
UNO	UNLESS NOTED OTHERWISE	
UTIL	UTILITY	
UV	UNIT VENTILATOR	
V		
V	VOLT/VENT	
VAR	VARIABLE/VARIES	
VCT	VINYL COMPOSITION TILE	
VERT	VERTICAL	
VEST	VESTIBULE	
VFD	VARIABLE FREQUENCY DRIVE	
VOL	VOLUME	
VTR	VENT THRU ROOF	
W		
W	WEST/WATER/CLOTHES/	
W	WASHER/WATT/WASTE	
W/	WITH	
W/O	WITHOUT	
WC	WATER CLOSET	
WD	WOOD	
WDW	WINDOW	
WH	WATER HEATER/WALL HUNG	
WP	WATER PROOF	
WS	WATER SOFTENER	
WT	WEIGHT	
WTR	WATER	



SHEET GENERAL NOTES

- ALL SERVICES, EQUIPMENT, ETC., SHOWN ON PLANS ARE NEW AND SHALL BE FURNISHED UNDER THIS CONTRACTOR UNLESS OTHERWISE INDICATED.
- IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR OTHERWISE INDICATED. CERTAIN ROOMS HAVE NO SUSPENDED CEILINGS, AND PIPING AND DUCTWORK IN THESE ROOMS IS TO BE EXPOSED.
- ALL PIPING AND DUCTWORK IS INTENDED TO BE CONCEALED IN WALLS AND PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. SOME ITEMS MAY APPEAR NOT TO BE CONCEALED DUE TO DIGITAL REGISTRATION AND ALIGNMENT ISSUES ASSOCIATED WITH THE DUPLICATION PROCESS.
- COOPERATE WITH THE OTHER TRADES TO AVOID ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- ALL DETAILS, SCHEMATICS, DIAGRAMS, ETC., DESIGNATE GENERAL ARRANGEMENT ONLY.
- FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON FLOOR PLANS, REFER TO ELEVATIONS, DETAILS, RISERS AND SCHEDULES.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES AND/OR OPENINGS WHERE REQUIRED TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOOR SLABS, WALLS, BRIDGING AND BEAMS EXCEPT WHERE OTHERWISE INDICATED.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES.
- WHERE NEW SERVICES ARE SHOWN CONNECTING TO EXISTING, VERIFY EXACT LOCATION AND SIZE OF EXISTING.
- ALL EXISTING SERVICES SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED.
- ALL DUCTS, PIPING, FIXTURES, ETC., WHICH ARE DASHED AND/OR INDICATED BY NOTE ON DEMOLITION PLANS SHALL BE REMOVED.
- WHERE SHEET METAL HOUSING, PLENUMS AND DUCTWORK ARE FASTENED TO GENERAL CONSTRUCTION, TAKE SPECIAL CARE TO MAKE AN AIRTIGHT SEAL AT THIS POINT.
- WHERE MATERIAL IS INDICATED TO BE REMOVED, IT SHALL REMAIN THE PROPERTY OF THE OWNER. THIS CONTRACTOR SHALL DISPOSE OF MATERIAL AS DIRECTED BY THE OWNER.
- ALL PIPE PENETRATIONS OF RATED WALLS AND FLOORS SHALL BE SLEEVED AND PROPERLY FIRE SEALED.
- ALL PIPE AND DUCT PENETRATIONS OF SMOKE PARTITION WALLS SHALL BE PROPERLY SEALED TO RESIST THE PASSAGE OF SMOKE AS REQUIRED BY THE LOCAL AUTHORITY.

DISRUPTION OF SERVICES AND ACCESSIBILITY NOTES:

DISRUPTION OF SERVICES: ALL AREAS SERVED BY H.V.A.C. EQUIPMENT ARE OCCUPIED DAILY. ROOF OPENINGS SHALL NOT BE LEFT OPEN OVER NIGHT. PERMANENT EQUIPMENT SHALL BE SET IN PLACE IMMEDIATELY AFTER THE EXISTING EQUIPMENT IS REMOVED. CONTRACTOR SHALL ANTICIPATE SOME AFTER HOURS AND WEEKEND WORK. ADVANCE WORK AND PREPARATION WILL BE PERFORMED BY THE CONTRACTOR TO KEEP DISRUPTION OF SERVICES TO A MINIMUM. A CONSTRUCTION SCHEDULE SHALL BE PROVIDED TO THE OWNER. REPLACEMENT SCHEDULE SHALL BE CLOSELY COORDINATED WITH THE OWNER NO LESS THAN (2) WEEKS IN ADVANCE. NO WORK SHALL BE PERFORMED PRIOR TO APPROVAL BY THE OWNER.

ACCESSIBILITY OF VALVES AND CONTROLS: ALL VALVES AND CONTROLS SHALL BE LOCATED AND INSTALLED FOR EASE OF MAINTENANCE AND ACCESS. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE INSTALLING ALL VALVES AND CONTROLS.

DEMOLITION GENERAL NOTES

- WHERE EQUIPMENT AND/OR FIXTURES ARE INDICATED TO BE REMOVED, THE EXISTING SERVICES SHALL BE CAPPED AND CONCEALED. ALL ABANDONED BRANCH SERVICES WHICH SERVE ABOVE EQUIPMENT, ETC., SHALL BE REMOVED BACK TO THE MAINS AND CAPPED, UNLESS OTHERWISE INDICATED.
- CAP ANY REMAINING PIPE AND/OR DUCT OPENINGS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING AND PAINTING TO MATCH EXISTING WALLS, FLOORS, AND CEILINGS.

MECHANICAL SHEET INDEX

1-M001	SYMBOLS, ABBREVIATIONS, GENERAL NOTES
1-MH-101	BUILDING 96 AND 148 MECHANICAL PLANS
1-MH-102	BUILDING 110 AND 147 MECHANICAL PLANS
1-MH-103	BUILDING 53, 145 & 148 MECHANICAL PLANS
1-ME001	MECHANICAL SCHEDULES

CONSULTANTS:

ARCHITECT/ENGINEERS:



To Solve. To Excel. Together.

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1112 N. West Ave.
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fax: (605) 336-7926
www.teamtsp.com
TSP PROJECT #04121063

Drawing Title

SYMBOLS, ABBREVIATIONS, GENERAL NOTES

Approved Project Director

Project Title

DEPT. OF V.A. (V23) BHHCS
REPAIR & REINSULATE STEAM
PIPING

Location
FORT MEADE, SD

Date
09-21-2012

Checked
SMT

Drawn
JHL

Project Number

568-11-115

Building Number

Drawing Number

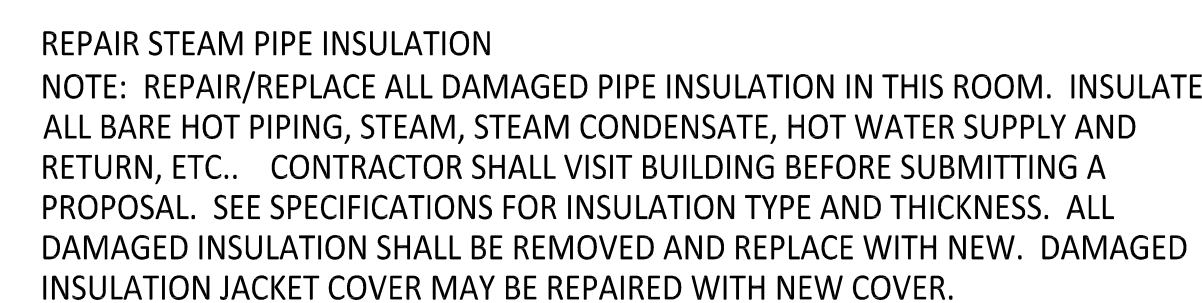
1-M001

Dwg. 2 of 6


Office of
Construction
and Facilities
Management





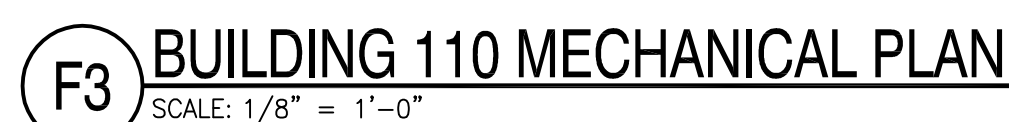
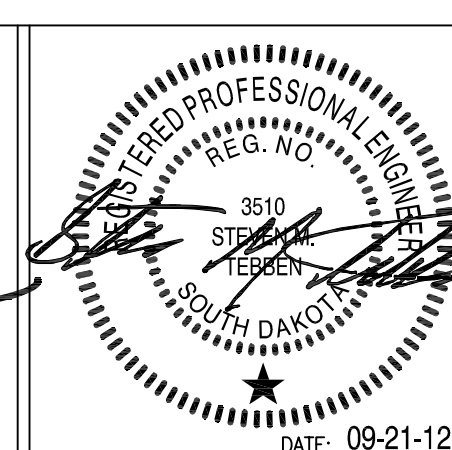


PLAN NORTH



DISRUPTION OF SERVICES: ALL AREAS SERVED BY H.V.A.C. EQUIPMENT ARE OCCUPIED DAILY. ROOF OPERATIONS SHALL NOT BE LEFT OPEN OVER NIGHT. PERMANENT EQUIPMENT SHALL BE SET IN PLACE IMMEDIATELY AFTER THE EXISTING EQUIPMENT IS REMOVED. CONTRACTOR SHALL ANTICIPATE SOME AFTER HOURS AND WEEKEND WORK. ADVANCE WORK AND PREPARATION WILL BE PERFORMED BY THE CONTRACTOR TO KEEP DISRUPTION OF SERVICES TO A MINIMUM. A CONSTRUCTION SCHEDULE SHALL BE SUBMITTED TO THE OWNER. REPLACEMENT SCHEDULE SHALL BE CLOSELY COORDINATED WITH THE OWNER NO LESS THAN (2) WEEKS IN ADVANCE. NO WORK SHALL BE PERFORMED PRIOR TO APPROVAL BY THE OWNER.

E7 PHOTO 012
SCALE: NONE

CONSULTANTS:

To Solve. To Excel. **Together**

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TSP PROJECT #04121063

Approved: Project Director

Drawn

1-MH-102
Dwg. 4 of 6



Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



C1 PHOTO 124
SCALE: NONE



C2 PHOTO 126
SCALE: NONE



C3 PHOTO 127
SCALE: NONE



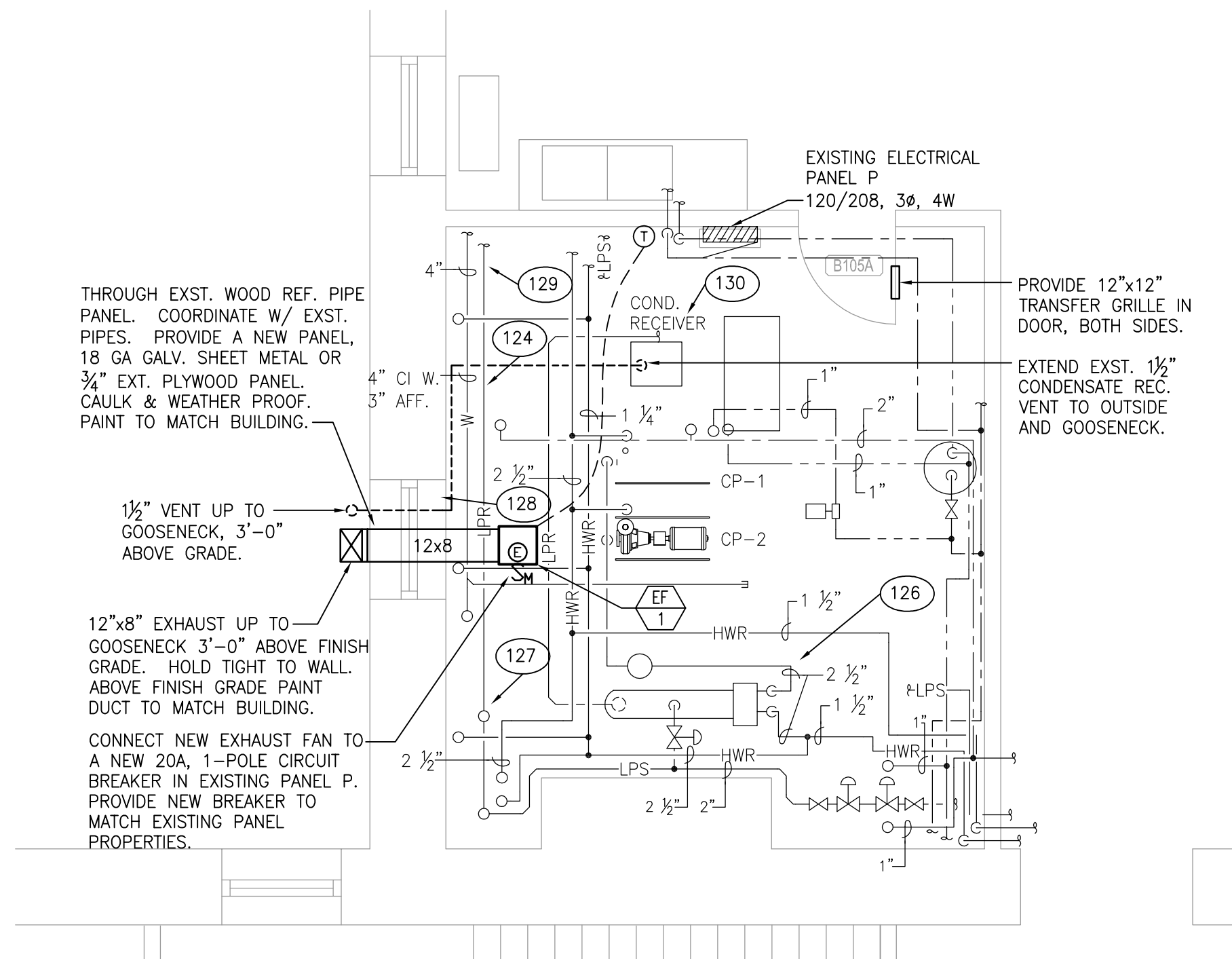
C5 PHOTO 128
SCALE: NONE



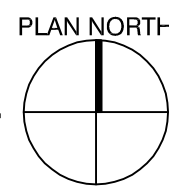
C7 PHOTO 129
SCALE: NONE



C8 PHOTO 130
SCALE: NONE



F1 BUILDING 53 BASEMENT MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



REPLACE 10" STEAM VALVE, 2" BY-PASS VALVE AND REINSULATE

F3 BUILDING 145 EXIST. MANHOLE #7
SCALE: NONE



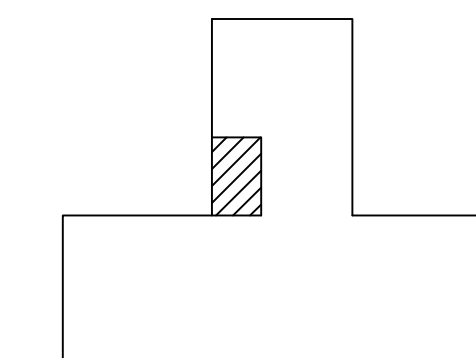
E5 BUILDING 148 RM. FM101
SCALE: NONE



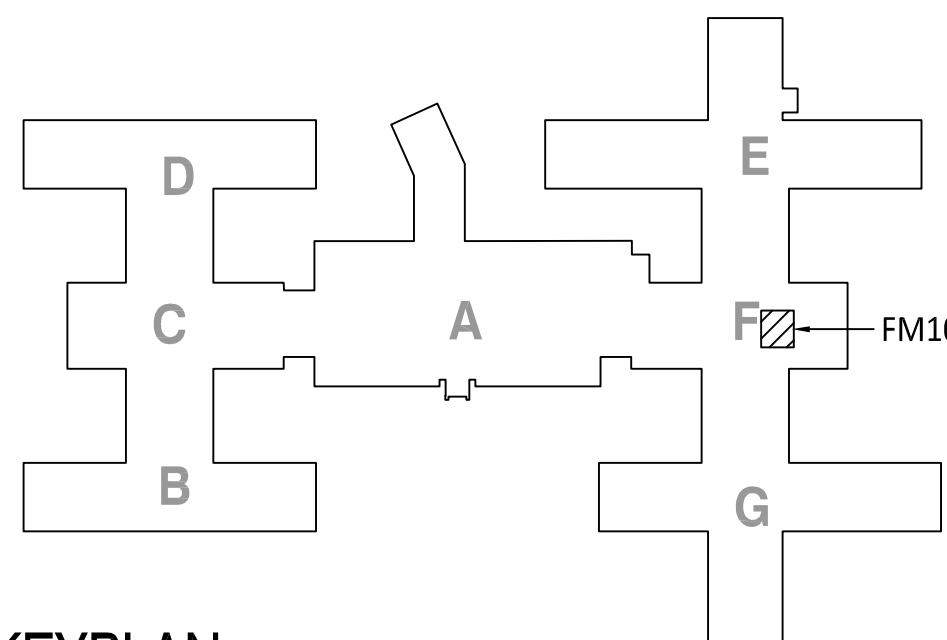
F5 BUILDING 148 RM. FM101
SCALE: NONE

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REPAIR STEAM PIPE INSULATION
NOTE: REPLACE ALL STEAM PIPE INSULATION AT PRESSURE REDUCING STATION. INCLUDE HPS & LPS VERTICAL FROM 8' AFF. DN. TO FLOOR. VERIFY WORK & EXTENT BEFORE SUBMITTING PROPOSAL. INSULATE ALL VALVES & CV'S. SEE SPECIFICATIONS FOR INSULATION TYPE AND THICKNESS.



KEYPLAN BUILDING 53
SCALE: NTS



KEYPLAN
SCALE: NTS

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title BUILDING 53, 145 AND 148 MECHANICAL PLANS		Project Title DEPT. OF V.A. (V23) BHHCS REPAIR & REINSULATE STEAM PIPING		Project Number 568-11-115		Office of Construction and Facilities Management Department of Veterans Affairs	
				Approved Project Director		Location FORT MEADE, SD		Building Number 53, 145, 148			
Revisions:				TSP, Inc. 1112 N. West Ave. Sioux Falls, SD 57104 phone: (605) 336-1160 fax: (605) 336-7926 www.teamtsp.com TSP PROJECT #04121063		Date 09-21-2012		Checked SMT		Drawn JHL	
Date				DATE: 9-21-12				Drawing Number 1-MH-103 Dwg. 5 of 6			

three inches = one foot
6"

one and one half inches = one foot

one inch = one foot
6"

three quarters inch

inch = one foot

quarter inch = one foot

one eighth inch = one foot


Revisions:	Date			DATE: 9-21-12
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WA FORM 08-6231

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DISRUPTION OF SERVICES TO AREAS SERVED BY H.V.A.C. EQUIPMENT AND OCCUPIED BY OPERATIONS SHALL NOT BE LEFT OPEN OVER NIGHT. PERMANENT EQUIPMENT SHALL BE SET IN PLACE IMMEDIATELY AFTER THE EXISTING EQUIPMENT IS REMOVED. CONTRACTOR SHALL ANTICIPATE SOME AFTER HOURS AND WEEKEND WORK. ADVANCE WORK AND PREPARATION WILL BE PERFORMED BY THE CONTRACTOR TO KEEP DISRUPTION OF SERVICES TO A MINIMUM. A CONSTRUCTION SCHEDULE SHALL BE PROVIDED BY THE OWNER. REPLACEMENT SCHEDULE SHALL BE FULLY COORDINATED WITH THE OWNER NO LESS THAN (2) WEEKS IN ADVANCE. NO WORK SHALL BE PERFORMED PRIOR TO APPROVAL BY THE OWNER.

Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs

 Department of
Veterans Affairs

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